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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO	
10/599,435	12/12/2006	Daisuke Shoji	P30635	8794
	7590 06/10/2010 & BERNSTEIN, P.L.C		EXAMINER	
1950 ROLAND	CLARKE PLACE		WANG, CHUN CHENG	
RESTON, VA	20191		ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			06/10/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

Office Action Summany		Application	No.	Applicant(s)			
		10/599,435		SHOJI ET AL.			
	Office Action Summary	Examiner		Art Unit			
		Chun-Chen	<u> </u>	1796			
Period fo	The MAILING DATE of this communication or Reply	on appears on the o	cover sheet with the d	correspondence ad	ddress		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILIN is in sort it ime may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicate period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS CFR 1.136(a). In no even ion. period will apply and will of statute, cause the applic	S COMMUNICATION t, however, may a reply be tin expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	·		
Status							
1) 又	Responsive to communication(s) filed on	02 March 2010.					
		This action is no	n-final.				
′=	Since this application is in condition for a	_		secution as to the	e merits is		
- /	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1 and 3</u> is/are pending in the ap 4a) Of the above claim(s) is/are wi Claim(s) is/are allowed. Claim(s) <u>1 and 3</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and the company of	thdrawn from cons					
Applicati	on Papers						
9) 🗆 '	The specification is objected to by the Exa	aminer.					
10)	The drawing(s) filed on is/are: a)[accepted or b)	objected to by the l	Examiner.			
	Applicant may not request that any objection	to the drawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the o	correction is required	I if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority เ	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94	48)	I)				
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		5) Notice of Informal F 3) Other:				

Application/Control Number: 10/599,435 Page 2

Art Unit: 1796

DETAILED ACTION

1. This office action is in response to the Amendment filed on 03/02/2010. Claims 2 and 4 have been cancelled. Claims 1 and 3 are now pending.

- 2. The objections and rejections not addressed below are deemed withdrawn.
- 3. The text of those sections of Title 35, U.S. Code not included in this section can be found in a prior Office Action.

Claim Rejections - 35 USC § 103

4. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kikuchi et al. ("Porous Body Preparation of Hydroxyapatite/Collagen Nanocomposites for Bone Tissue Regeneration, Key Engineering Materials, Vols 254-256 (2004), pp 561-564).

The rejections stand as per the reasons set forth in paragraph 3 of the previous Office Action, incorporated herein by reference

Response to Arguments

- 5. Applicant's arguments filed 03/02/2010 have been fully considered but they are not persuasive.
- 6. Applicant alleged: by indirectly determining the freezing-environment temperature from the average pore diameter with the aid of the parameter "solidification time" is more accurate than the direct method disclosed in Kikuchi.

Response: 1. Attention is drawn to claim 1, lines 6 and 7, "... the average pore diameter of a porous body is controlled by freezing pluralities of gels at various freezing-environment temperatures ...". The claimed method does not show steps to utilize the obtained graphs to

Art Unit: 1796

control the pore size of the fibrous apatite/collagen composite, thus the charting does not contribute patentability weight of the method. 2. Applicant does not show evidence and arguments directed to advantages over Kikuchi. 3. Kikuchi clearly discloses using freezing temperature to control the pore size of the fibrous apatite/collagen composite. Examiner summits that the solidification time Sb is controlled by the freezing-environment temperature T₀, and that, composite of the same composition (e.g. same heat transferring coefficient), volume and shape, the solidification time Sb will be substantially proportional to the freezing-environment temperature. Kikuchi clearly disclose using freezing temperature to control the pore size of the fibrous apatite/collagen composite and the relationship between solidification time vs. pore size, the solidification time Sb can also be measured and used to plot the charts of Sb vs. D_{av} and T₀ vs. Sb. For a system that the complete solidified state can not be easily monitored, the Sb is a convenient indicator for the **completion** of solidifying treatment.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chun-Cheng Wang whose telephone number is (571)270-5459. The examiner can normally be reached on Monday to Friday w/alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on (571)272-1398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/599,435 Page 4

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ling-Siu Choi/ Primary Examiner, Art Unit 1796 /Chun-Cheng Wang/ Examiner, Art Unit 1796

/CCW/